

SIDE BY SIDE COMPARISON

INNOVATIVE FEATURES

• HIGH EFFICIENCY:

High efficiency means cooler internal alternators operating temperatures resulting in less engine horsepower required and maximizing fuel savings. Our unique air flow design offers a more efficient air flow through the windings which directly translates in maximum output and efficiencies.

• TEMPERATURE RATING:

All our alternators are validated to work and operate in today's ambient air temperatures of 125°C / 257°F

• DEBRIS FREE & COOLER OPERATION:

For high debris or high temperature environments, all DelStar series alternators are available with an optional Air Intake Cover by adding the letter "D" after the part No. The Ducted air allows filtered or fresh air flow to the unit which will improve output, efficiency and extends the alternator service life.

• SOFT START DELAY (SSD) & LOAD RESPONSE CONTROL (LRC):

Again "SETTING the STANDARD" with a newly introduced SMART REGULATOR where at engine start up, the regulator monitors the (low) engine RPM, it controls and gradually introduces alternator output to eliminate engine torque decrement due to a sudden and abrupt load transition at low RPM.

• OVERVOLTAGE SHUT-DOWN (OSD):

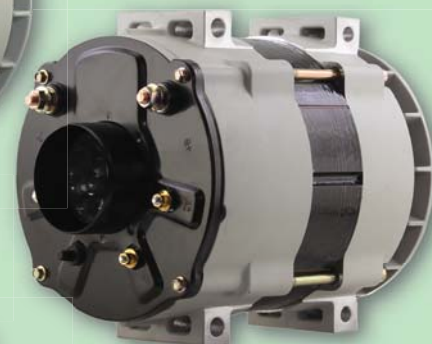
Designed to protect onboard electronics that are very sensitive to high voltage conditions, by shutting down the alternator output and restoring output only when the voltage is stabilized to or below the regulator voltage set point.

12V-435A

320A at engine idle

24V-250A

190A at engine idle



With air intake cover



With air intake cover

APPLICATIONS:

- Industrial
- Fire Trucks
- Marine, Mining
- Long Haul Trucks
- Utility & Work Vehicles
- School & Shuttle Buses

WARRANTY:

3 Years Limited Warranty



DelStar® 435A Series 180

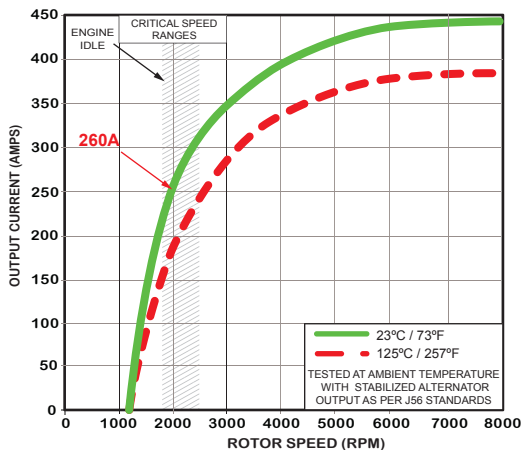
COMPARED TO: Delco Remy & C.E. Niehoff

SPECIFICATIONS	435A 180 Series	Delco Remy 430A 55SI	C.E. Niehoff 360A C Series
Part Number	100-18101 100-18111	8600529 8600629	C527, 531, 534
Brushless Design	YES	YES	YES
Mounting types available	J180 & PAD	PAD	PAD
Output Stabilized:			
6000RPM @ 23°C / 73°F	435A	430A	376A
2000RPM @ 23°C / 73°F	260A	242A	200A
6000RPM @ 93°C / 257°F	378A	376A	342A
2000RPM @ 93°C / 257°F	218A	192A	170A
6000RPM @ 125°C / 257°F	347A	N/R**	N/A
2000RPM @ 125°C / 257°F	198A	N/R**	N/A
Efficiency	73%	73%	67%
Temperature Rating	-40° to 125°C / 257°F	-40° to 93°C / 200°F	N/A
Continuous RPM	8000	8000	8000
Rotation	Bidirectional	CW	Bidirectional
Optional Air intake cover	YES	NO	NO
Weight: lbs/Kg	46 / 20.9	43 / 19.5	45 / 20.6
Overall Length: mm / in	292 / 11.50	286 / 11.26	271 / 10.67
Number of Diodes	20	12	N/A
Ground	Insulated	Negative	Negative
E-Coating Corrosion Resistant	YES	NO	YES
Voltage Regulator: Internal	YES	YES	Alt. Mounted
Self-Exite	YES	YES	YES/NO *
Ind. Light	YES	YES	YES/NO*
Remote Sense Regulation	YES	YES	YES/NO *
Soft Start Delay - SSD	YES	NO	YES/NO *
Load Response Control - LRC	YES	NO	YES/NO *
Adjustable Voltage Option	YES	NO	YES
Overvoltage Shut-Down - OSD	YES	NO	YES

* Optional w/ V. Regulator specific

** Not rated for 125°C / 257°F

14V-435A



EFFICIENCY / TORQUE

14Volt - 23°C / 73°F Stabilized output per SAE J56 standard

rpm	Amps	Effic. %	Nm
1250	1	0	1
1800	218	73	44.4
2000	260	72	48.5
3000	347	68	45.5
4000	388	65	39.9
5000	415	63	35.2
6000	435	61	31.8

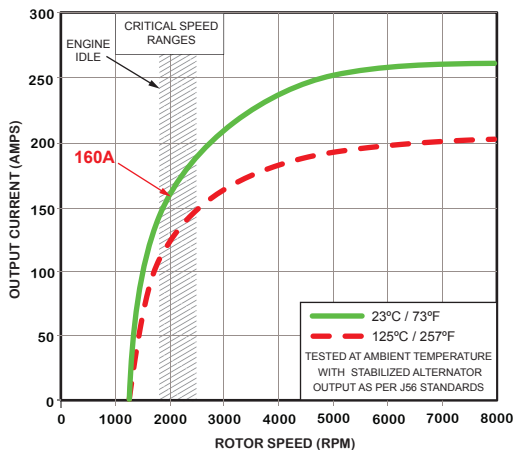
DelStar® 250A Series 180

COMPARED TO: Delco Remy & C.E. Niehoff

SPECIFICATIONS	250A 180 Series	Delco Remy 250A 55SI	Delco Remy 275A 55SI	C.E. Niehoff 225A C532
Part Number	100-18201, 2 100-18211, 3	8600453 8600581	8600480 8600580	C532
Brushless Design	YES	YES	YES	YES
Mounting types available	J180 & PAD	PAD	PAD	PAD
Output Stabilized:				
6000RPM @ 23°C / 73°F	259A	250A	275A	230A
2000RPM @ 23°C / 73°F	160A	132A	125A	110A
6000RPM @ 110°C / 230°F	209A	N/A	191A	N/A
2000RPM @ 110°C / 230°F	130A	N/A	102A	N/A
6000RPM @ 125°C / 257°F	199A	215A	N/R**	N/A
2000RPM @ 125°C / 257°F	123A	107A	N/R**	N/A
Efficiency	80%	80%	80%	N/A
Temperature Rating	-40° to 125°C / 257°F	-40° to 125°C / 257°F	-40 to 110°C / 230°F	N/A
Continuous RPM	8000	8000	8000	8000
Rotation	Bidirectional	CW	CW	Bidirectional
Optional Air intake cover	YES	NO	NO	YES
Weight: lbs/Kg	46 / 20.9	43 / 19.5	43 / 19.5	45 / 20.6
Overall Length: mm / in	292 / 11.50	286 / 11.26	271 / 10.67	274 / 10.79
Number of Diodes	20	12	12	N/A
Ground	Ins. or Neg.	Negative	Negative	Negative
E-Coating Corrosion Resistant	YES	NO	NO	YES
Voltage Regulator : Internal	YES	YES	YES	Alt. Mounted
Self-Exite	YES	YES	YES	YES
Ind. Light	YES	YES	YES	NO
Remote Sense Regulation	YES	YES	YES	YES
Soft Start Delay - SSD	YES	NO	NO	NO
Load Response Control - LRC	YES	NO	NO	NO
Adjustable Voltage Option	YES	NO	NO	N/A
Overvoltage Shut-Down - OSD	YES	NO	NO	YES

** Not rated for 125°C / 257°F

28V-250A



EFFICIENCY / TORQUE

14Volt - 23°C / 73°F Stabilized output per SAE J56 standard

rpm	Amps	Effic. %	Nm
1250	1	0	1
1800	145	80	26.9
2000	160	79	27.1
3000	208	74	25.1
4000	228	71	21.5
5000	241	67	19.2
6000	250	64	17.4

12V - COMPETITOR INTERCHANGE

DELSTAR Brushless		Delco Remy		C.E. Niehoff	
180 Series Part No.	Amps Output @ 2000 / 6000 rpm	55SI Part No.	Amps Output @ 2000 / 6000 rpm	C500 Part No.	Amps Output @ 2000 / 6000 rpm
100-18111	12V 260 / 435A	8600473	230 / 420A	C527	200 / 360A
		8600629	230 / 430A	C531 C534	

24V - COMPETITOR INTERCHANGE

DELSTAR Brushless		Delco Remy		C.E. Niehoff	
180 Series Part No.	Amps Output @ 2000 / 6000 rpm	55SI Part No.	Amps Output @ 2000 / 6000 rpm	C500 Part No.	Amps Output @ 2000 / 6000 rpm
100-18211	24V 160 / 250A	8600453	24V 130 / 250A	C532	110 / 225A
		8600480	24V 125 / 275A		
		8600580	24V 125 / 275A		
		8600581	24V 130 / 250A		



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